

CHAM 3 (07/10/19)

Fig .1A

G protein	A motif	G	PM 2	B motif
Consensus	GXXXXGK(S/T)	F	T	DXXG
Ras family:				
RAS	GXGGVGKS	F	T	DTAG
RHO	GDGAXGKT	F/Y	T	DTAG
YPT (Rab)	GXXXXGK(S/T)	F/Y	T	DTAG
ARF's:	GL DAAGKT		T	DVGG
EFT:	GHVDHGKT		T	DCPG

Fig .1B

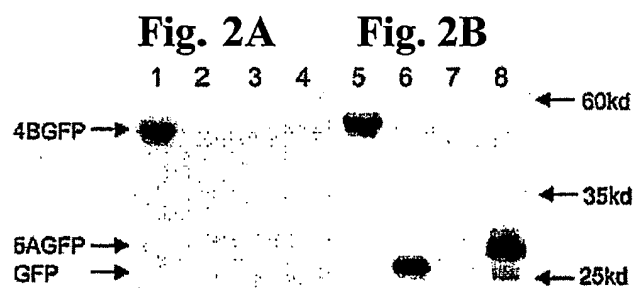
Virus/Protein	A motif	B motif
Consensus	GXXXXGK(S/T)	D/E
P4 Phage/P4α	GP GSGKS	D
HAV/2C	GKRGGGKS	DD
Polio/2C	GS PG TGKS	MDD
BPV/NS1	GP AS TGKT	EE
CPMV/P58	GKS R TGKS	DD
RHDV/2C	GAP G I GKT	DE

Fig .1C

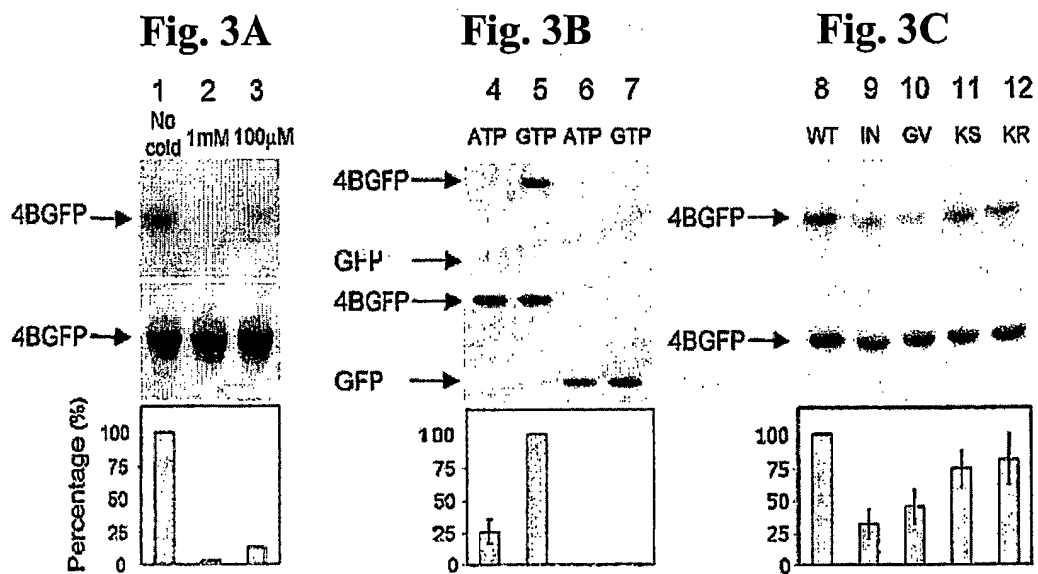
HCV/NS4B1	A motif	G	PM2	B motif
Consensus	GSIGL GK	F	T	DAAA
Genotype 1b	GSIGL GK	F	T	DAAA
Genotype 3	GSIGL <u>GR</u>	F	T	DAAA
G129V	<u>Y</u> SIGL GK	F	T	DAAA
I131N	GS <u>N</u> GLGK	F	T	DAAA
K135S	GSIGL <u>GS</u>	F	T	DAAA
K135R	GSIGL <u>GR</u>	F	T	DAAA

Figs. 1A-1C

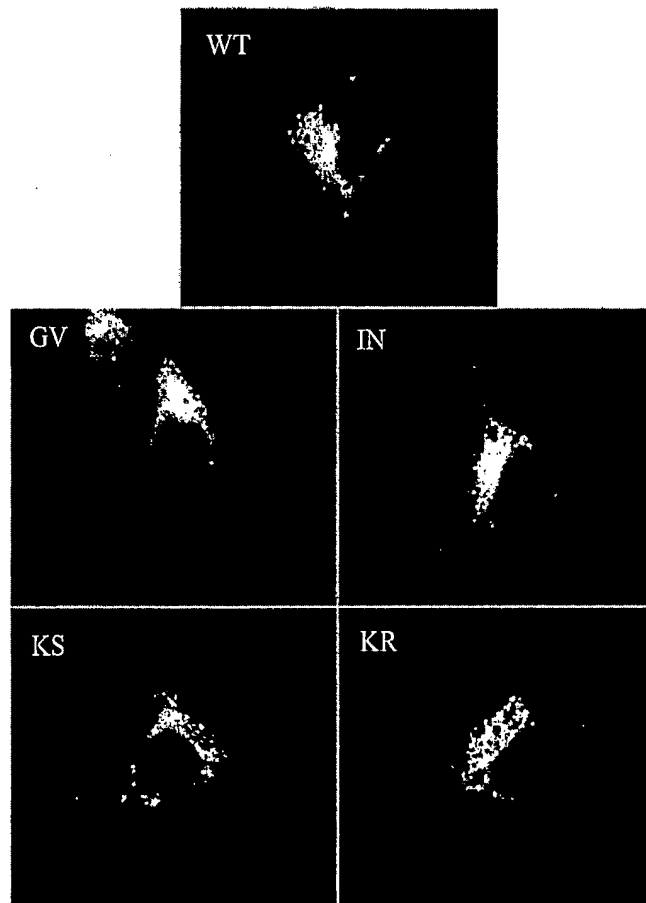
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**Figs. 2A and 2B**

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**Figs. 3A - 3C**

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**Fig. 4**

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Fig. 5A

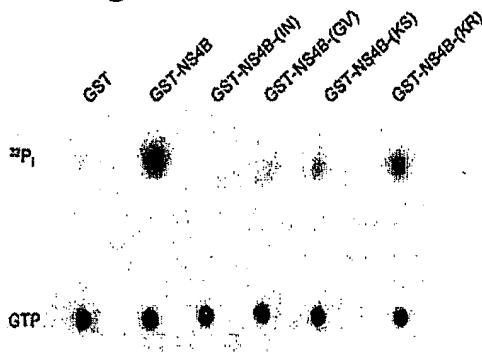
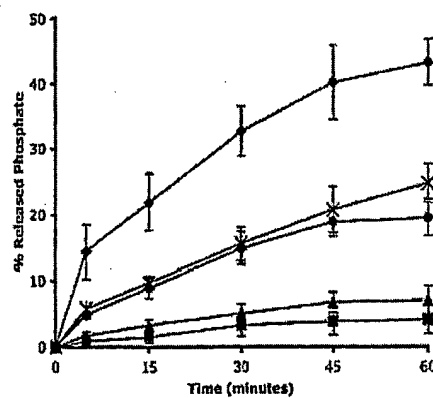


Fig. 5B



Figs. 5A and 5B

Fig. 6A

NBM protein consensus	G	X1	X2	X3	X4	G	K
NS4B consensus:	G	S	I	G	L	G	K
Genotype 1b:	G	S	I	G	L	G	K

Fig. 6B

Engineered mutations in HCV replicon

<u>V</u>	S	I	G	L	G	K (G129V)
<u>G</u>	S	<u>N</u>	G	L	G	K (I131N)
<u>G</u>	S	I	G	L	G	<u>S</u> (K135S)
<u>G</u>	S	I	G	L	G	<u>R</u> (K135R)

Figs. 6A and 6B

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Fig. 7A

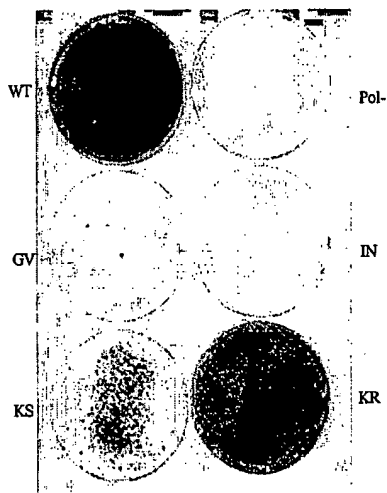
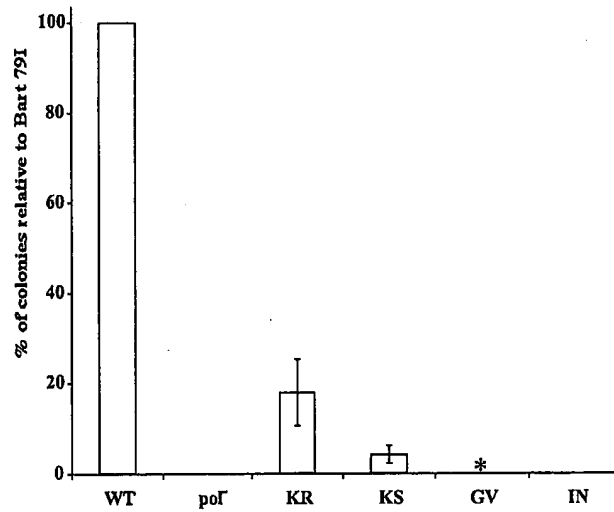
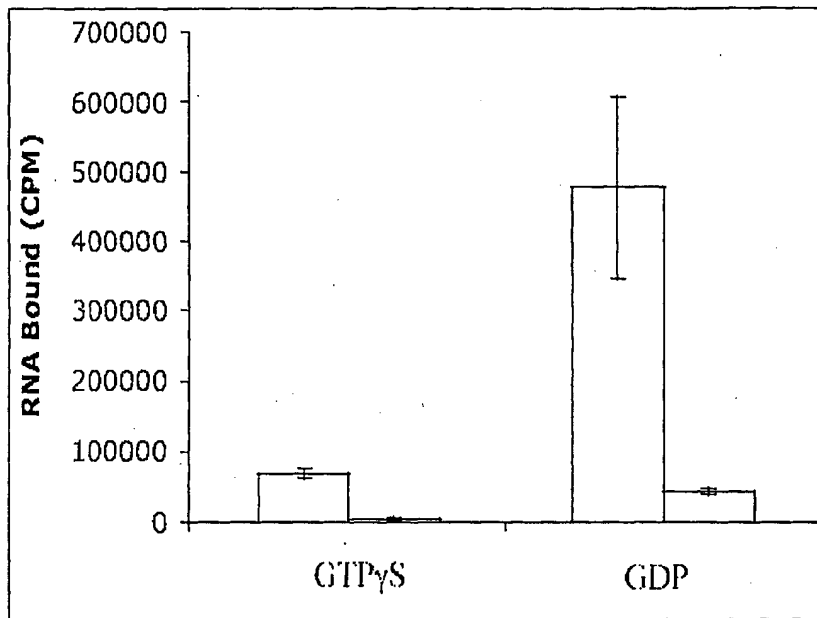


Fig. 7B

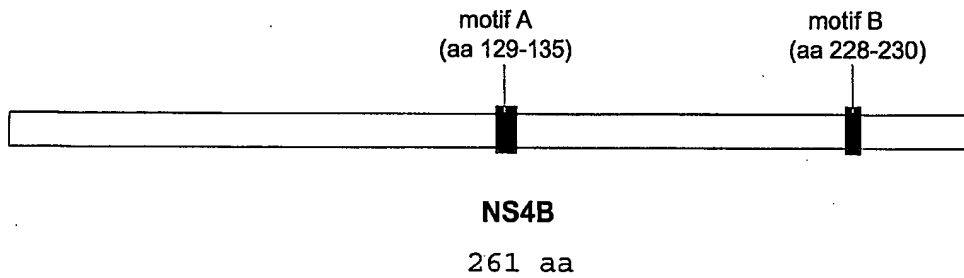


Figs. 7A and 7B

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**Fig. 8**

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Location of motifs A and B of NS4B's NBM

Fig. 9